Pioneer sound.vision.soul

Owner's Manual

CD RECEIVER

DEH-3090UB

SUPER TUNER III D

English

Contents

Thank you for buying this Pioneer product.

Please read through these operating instructions so you will know how to operate your model properly. *After you have finished reading the instructions, keep this manual in a safe place for future reference.*

01 Before You Start

About this unit **4**
Visit our website **4**
Protecting your unit from theft **4**
– Removing the front panel **5**
– Attaching the front panel **5**
Use and care of the remote control **5**
– Installing the battery **5**
– Using the remote control **6**

02 Operating this unit

What's What **7**
– Head unit **7**
– Remote control **8**
– Display indication **8**
Basic Operations **9**
– Power ON/OFF **9**
– Selecting a source **9**
– Adjusting the volume **10**
Tuner **10**
– Basic Operations **10**
– Storing and recalling broadcast frequencies **10**
– Introduction of advanced operations **11**
– Storing the strongest broadcast frequencies **11**
– Tuning in strong signals **11**
Built-in CD Player **12**
– Basic Operations **12**
– Displaying text information on disc **12**
– Selecting tracks from the track title list **13**
– Selecting files from the file name list **13**
– Introduction of advanced operations **13**
– Selecting a repeat play range **14**
– Playing tracks in random order **14**
– Scanning folders and tracks **14**
– Pausing playback **14**
– Using Sound Retriever **14**
– Using disc title functions **15**
Playing songs on USB portable audio player/ USB memory **15**
– Basic Operations **15**
– Displaying text information of an audio file **16**
– Selecting files from the file name list **16**
– Introduction of advanced operations **16**

03 Audio Adjustments

Introduction of audio adjustments **18**
Using balance adjustment **18**
Using the equalizer **18**
– Recalling equalizer curves **18**
– Adjusting equalizer curves **19**
– Fine-adjusting equalizer curve **19**
Adjusting loudness **19**
Using subwoofer output **20**
– Adjusting subwoofer settings **20**
Using the high pass filter **21**
Boosting the bass **21**
Adjusting source levels **21**

04 Initial Settings

Adjusting initial settings **22**
Setting the clock **22**
Setting the FM tuning step **22**
Setting the AM tuning step **22**
Switching the warning tone **23**
Switching the auxiliary setting **23**
Setting the rear output and subwoofer controller **23**
Switching the ever scroll **24**

Contents

05 Other Functions

Using the AUX source **25**
- Selecting AUX as the source **25**
- Setting the AUX title **25**

Turning the clock display on or off **25**

06 Connections

Important **26**

When not connecting a rear speaker lead to a subwoofer **28**

When using a subwoofer without using the optional amplifier **30**

07 Installation

DIN front/rear mount **32**

DIN Front-mount **32**
- Installation with the rubber bush **32**
- Removing the unit **32**

DIN Rear-mount **33**
- Installation using the screw holes on the side of the unit **33**

Additional Information

Error messages **34**

Handling guideline of discs and player **35**

Dual Discs **35**

Compressed audio compatibility **35**

USB audio player/USB memory **36**
- USB audio player/USB memory compatibility **36**
- Handling guideline and supplemental information **36**

Compressed audio files on the disc **37**
- Example of a hierarchy **37**

Specifications **38**

About this unit

CAUTION

- Do not allow this unit to come into contact with liquids. Electrical shock could result. Also, damage to this unit, smoke, and overheating could result from contact with liquids.
- Keep this manual handy as a reference for operating procedures and precautions.
- Always keep the volume low enough so that you can hear sounds from outside the vehicle.
- Protect this unit from moisture.
- If the battery is disconnected or discharged, the preset memory will be erased and must be reprogrammed.
- If this unit does not operate properly, contact your dealer or nearest authorized Pioneer Service Station.

About WMA

The Windows Media™ logo printed on the box indicates that this unit can play back WMA data.
Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

- This unit may not operate correctly depending on the application used to encode WMA files.

About MP3

Supply of this product only conveys a license for private, non-commercial use and does not convey a license nor imply any right to use this product in any commercial (i.e. revenue-generating) real time broadcasting (terrestrial, satellite, cable and/or any other media), broadcasting/streaming via internet, intranets and/or other networks or in other electronic content distribution systems, such as pay-audio or audio-on-demand applications. An independent license for such use is required. For details, please visit
http://www.mp3licensing.com.

Portable audio player compatibility

- Inquire at the manufacturer about your USB portable audio player/USB memory.

This unit corresponds to the following.
— USB MSC (Mass Storage Class) compliant portable audio player and memory
— WMA, MP3 and WAV file playback
For details about the compatibility, refer to *USB audio player/USB memory compatibility* on page 36.

CAUTION

Pioneer accepts no responsibility for data lost on the USB portable audio player/USB memory even if that data is lost while using this unit.

Visit our website

Visit us at the following site:
http://pioneer.jp/group/index-e.html

- We offer the latest information about Pioneer Corporation on our website.

Protecting your unit from theft

The front panel can be detached to deter theft.

- If the front panel is not detached from the head unit within five seconds of turning off the ignition, a warning tone sounds.
- You can turn off the warning tone. See *Switching the warning tone* on page 23.

Important

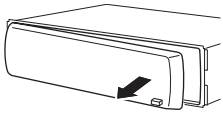
- Handle gently when removing or attaching the front panel.
- Avoid subjecting the front panel to excessive shock.

- Keep the front panel out of direct sunlight and high temperatures.

Removing the front panel

1 Press DETACH to release the front panel.

2 Grab the front panel and remove.

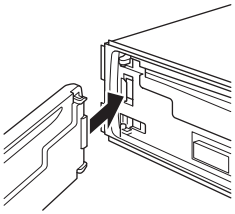


3 Put the front panel into the provided protective case for safe keeping.

Attaching the front panel

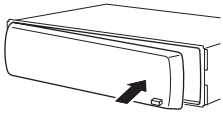
1 Slide the front panel to the left until it clicks.

Front panel and the head unit are jointed on the left side. Make sure that the front panel has been jointed to the head unit.



2 Press the right side of the front panel until it is firmly seated.

■ If you can't attach the front panel to the head unit successfully, try again. Front panel may be damaged if you attach the front panel forcedly.

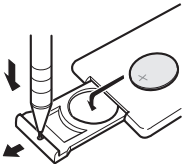


Use and care of the remote control

Installing the battery

Slide the tray on the back of the remote control out and insert the battery with the plus (+) and minus (–) poles aligned properly.

- When using for the first time, pull out the film protruding from the tray.



WARNING

Keep the battery out of the reach of children. Should the battery be swallowed, consult a doctor immediately.

CAUTION

- Use one **CR2025 (3 V)** lithium battery.
- Remove the battery if the remote control is not used for a month or longer.
- There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type.
- Do not handle the battery with metallic tools.
- Do not store the battery with metallic objects.
- If the battery leaks, wipe the remote control completely clean and install a new battery.
- When disposing of used batteries, comply with governmental regulations or environmental public institutions' rules that apply in your country/area.

Using the remote control

Point the remote control in the direction of the front panel to operate.

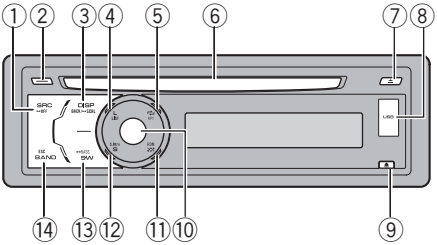
- The remote control may not function properly in direct sunlight.

Important

- Do not store the remote control in high temperatures or direct sunlight.
- Do not let the remote control fall onto the floor, where it may become jammed under the brake or accelerator pedal.

What's What

Head unit



① **SRC/OFF button**
This unit is turned on by selecting a source.
Press to cycle through all the available sources.

② **CLOCK button**
Press to change to the clock display.

③ **DISP/BACK/SCRL button**
Press to select different displays.
Press and hold to scroll the text information.
Press to return to the previous display when operating the menu.
Press and hold to return to the main menu when operating the menu.

④ **LIST button**
Press to display the disc title list, track title list, folder list, file list or preset channel list depending on the source.

⑤ **RPT/LOCAL button**
Press to switch the repeat play range while using CD or USB.
Press to switch local settings while using tuner as the source.

⑥ **Disc loading slot**
Insert a disc to play.

⑦ **EJECT button**
Press to eject a disc.

⑧ **USB port**
Use to connect a USB audio player/USB memory.

- When connecting, remove the cover on the USB port.
- Use a USB cable to connect the USB audio player/USB memory to the USB port. Since the USB audio player/USB memory is projected forward from the unit, it is dangerous to connect directly. Pioneer CD-U50E USB cable is also available. For details, consult your dealer.

⑨ **DETACH button**
Press to remove the front panel from the head unit.

⑩ **MULTI-CONTROL**
Move to perform manual seek tuning, fast forward, reverse and track search controls.
Also used for controlling functions.
Turn to increase or decrease the volume.

⑪ **RDM button**
Press to turn random function on or off while using CD or USB.

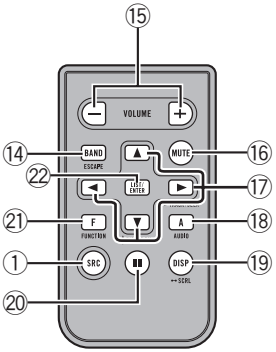
⑫ **S.Rtrv button**
Press to switch Sound Retriever settings.

⑬ **SW/BASS button**
Press to switch to subwoofer setting menu.
When operating subwoofer menu, press to switch setting.
Press and hold to switch to bass boost menu.

⑭ **BAND/ESC button**
Press to select among three FM bands and one AM band.
Press to return to the ordinary display when operating menu.

Remote control

Operation is the same as when using the buttons on the head unit.



⑮ VOLUME buttons
Press to increase or decrease the volume.

⑯ MUTE button
Press to turn off the sound. To turn on the sound, press again.

⑰ ▲/▼/◄/► buttons
Press to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.

⑱ AUDIO button
Press to select an audio function.

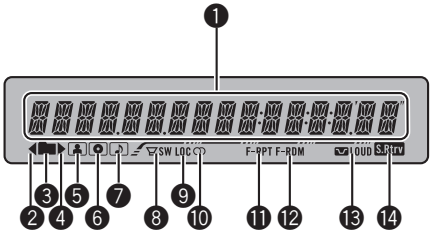
⑲ DISP button
Press to select different displays.
Press and hold to scroll the text information.

⑳ II button
Press to turn pause on or off.

㉑ FUNCTION button
Press to select functions.

㉒ LIST/ENTER button
Press to display the disc title list, track title list, folder list, file list or preset channel list depending on the source.
While in the operating menu, press to control functions.

Display indication



❶ Main display section
Displays band, frequency, elapsed playback time and other settings.
- Tuner
  Band and frequency are displayed.
- Bulit-in CD player and USB
  Elapsed playback time and literal information are displayed.

❷ ◄ indicator
Appears when an upper tier of folder or menu exists.

❸ (folder) indicator
Appears when operating list function.

❹ ► indicator
Appears when a lower tier of folder or menu exists.

❺ (artist) indicator
Appears when the disc (track) artist name is displayed on the main display section.

❻ (disc) indicator
Appears when the disc (album) name is displayed on the main display section.

❼ (song) indicator
Appears when the track (song) name is displayed on the main display section.

❽ SW (subwoofer) indicator
Appears when subwoofer is on.

❾ LOC indicator
Appears when local seek tuning is on.

❿ **(stereo) indicator**
Appears when the selected frequency is being broadcast in stereo.

⓫ **F-RPT indicator**
Appears when folder repeat is on.
When repeat function is on, only **PRT** is displayed.

⓬ **F-RDM indicator**
Appears when folder random is on.
When random function is on, only **RDM** is displayed.

⓭ **LOUD (loudness) indicator**
Appears when loudness is on.

⓮ **S.Rtrv (Sound Retriever) indicator**
Appears when Sound Retriever function is on.

Basic Operations

Power ON/OFF

Turning the unit on

- **Press SRC to turn the unit on.**

Turning the unit off

- **Press OFF and hold until the unit turns off.**

Selecting a source

You can select a source you want to listen to. To switch to the built-in CD player, load a disc in the unit (refer to page 12).

- **Press SRC repeatedly to switch between the following sources.**

TUNER (tuner)—**COMPACT DISC** (built-in CD player)—**USB** (USB)—**AUX** (AUX)

Notes

- In the following cases, the sound source will not change.
  - When there is no disc in the unit.
  - When a USB audio player/USB memory is not connected to this unit.
  - When AUX (auxiliary input) is set to off (refer to page 23).
- AUX is set to on by default. Turn off the AUX when not in use (refer to *Switching the auxiliary setting* on page 23).
- Charging the portable audio player using car's DC power source while connecting it to AUX input may generate noise. In this case, stop charging.
- When this unit's blue/white lead is connected to the vehicle's auto-antenna relay control terminal, the vehicle's antenna extends when this unit's source is turned on. To retract the antenna, turn the source off.

Adjusting the volume

- **Turn MULTI-CONTROL to adjust the sound level.**

Tuner

Basic Operations

Important

If you are using this unit in North, Central or South America, reset the AM tuning step (see *Setting the AM tuning step* on page 22).

- **Select a band**

Press **BAND/ESC**.

- Band can be selected from among **FM1**, **FM2**, **FM3** or **AM**.

- **Manual tuning (step by step)**

Push **MULTI-CONTROL** left or right.

- **Seek tuning**

Push and hold **MULTI-CONTROL** left or right for about one second and release.

- You can cancel seek tuning by pushing **MULTI-CONTROL** left or right.
- If you push and hold **MULTI-CONTROL** left or right, you can skip stations. Seek tuning starts as soon as you release **MULTI-CONTROL**.

Storing and recalling broadcast frequencies

You can easily store up to six broadcast frequencies for later recall.

- Six stations for each band can be stored in memory.

1 Press LIST.

Preset screen is displayed.

2 Use MULTI-CONTROL to store the selected frequency in memory.

Turn to change the preset number. Press and hold to store.

- You can also store the frequency in memory by pushing and holding **MULTI-CONTROL** right.

3 Use MULTI-CONTROL to select the desired station.

Turn to change the station. Press to select.

■ You can also change the station by pushing **MULTI-CONTROL** up or down.
■ To return to the ordinary display, press **BAND/ESC** or **LIST**.
■ If you do not operate the list within about 30 seconds, the display automatically returns to the ordinary display.

Introduction of advanced operations

1 Press MULTI-CONTROL to display the main menu.

2 Use MULTI-CONTROL to select FUNCTION.
Turn to change the menu option. Press to select.

3 Turn MULTI-CONTROL to select the function.
BSM (best stations memory)—**LOCAL** (local seek tuning)

Notes

- You can also select the function by pressing **FUNCTION** on the remote control.
- To return to the previous display, press **BACK**.
- To return to the main menu, press and hold **BACK**.
- To return to the ordinary display, press **BAND/ESC**.

Storing the strongest broadcast frequencies

BSM (best stations memory) lets you automatically store the six strongest broadcast frequencies.

1 Use MULTI-CONTROL to select BSM in the function menu.

2 Press MULTI-CONTROL to turn BSM on.
The six strongest broadcast frequencies are stored in the order of their signal strength.
■ To cancel, press **MULTI-CONTROL** again.

Tuning in strong signals

Local seek tuning lets you tune in only those radio stations with sufficiently strong signals for good reception.

● **Press LOCAL repeatedly to select the desired setting.**
FM: **OFF**—**LEVEL1**—**LEVEL2**—**LEVEL3**—**LEVEL4**
AM: **OFF**—**LEVEL1**—**LEVEL2**
The **LEVEL4** setting allows reception of only the strongest stations, while lower settings let you receive progressively weaker stations.

Note

You can also perform this operation in the menu that appears by using **MULTI-CONTROL**.

Built-in CD Player

Basic Operations

● **Insert a disc into the disc loading slot.**
Playback will automatically start.
▪ **When loading a disc, face the label side of a disc up.**

● **Eject a disc**
Press **EJECT**.

● **Select a folder**
Push **MULTI-CONTROL** up or down.
▪ You cannot select a folder that does not have a compressed audio file recorded in it.

● **Select a track**
Push **MULTI-CONTROL** left or right.

● **Fast forward or reverse**
Push and hold **MULTI-CONTROL** left or right for about one second and release.
▪ When playing compressed audio, there is no sound on fast forward or reverse.

● **Return to root folder**
Press and hold **BAND/ESC**.
▪ If folder 01 (ROOT) contains no files, playback commences with folder 02.

● **Switch between compressed audio and CD-DA**
Press **BAND/ESC**.
▪ This operation is available only when playing CD-EXTRA or MIXED-MODE CDs.
▪ If you have switched between compressed audio and CD-DA, playback starts at the first track on the disc.

Notes

- The built-in CD player can play back audio CD and compressed audio recorded on a CD-ROM. (Refer to page 37 for files that can be played back.)
- Read the precautions for discs and player on page 35.
- After a disc has been inserted, press **SRC** to select the built-in CD player.
- There is sometimes a delay between starting up disc playback and the sound being issued. When being read, **FORMAT READ** is displayed.
- If an error message such as **ERROR-11** is displayed, refer to *Error messages* on page 34.
- Playback is carried out in order of file number. Folders are skipped if they contain no files. (If folder 01 (ROOT) contains no files, playback commences with folder 02.)

Displaying text information on disc

● **Press DISP to select the desired text information.**
For title entered CD
Play time—disc title
For CD TEXT discs
Play time—disc title—disc artist name—track title—track artist name
For WMA/MP3
Play time—folder name—file name—track title—artist name—album title—comment—bit rate
For WAV
Play time—folder name—file name—sampling frequency

Notes

- You can scroll to the left of the title by pressing and holding **DISP**.
- Audio CD that contains certain information such as text and/or number is CD TEXT.
- If specific information is not recorded on a disc, title or name is not displayed.
- Depending on the version of iTunes® used to write MP3 files onto a disc, comment information may not be correctly displayed.
  — iTunes is a registered trademark of Apple Inc.

- Depending on the version of Windows Media Player used to encode WMA files, album names and other text information may not be correctly displayed.
- When playing back VBR (variable bit rate)-recorded WMA files, the average bit rate value is displayed.
- When playing back VBR (variable bit rate)-recorded MP3 files, **VBR** is displayed instead of bit rate value.
- The sampling frequency shown in the display may be abbreviated.
- When Ever Scroll is set to ON at the initial setting, text information scrolls continuously in the display. Refer to *Switching the ever scroll* on page 24.

Selecting tracks from the track title list

Track title list lets you see the list of track titles on a CD TEXT disc and select one of them to play back.

1 Press LIST to switch to the track title list mode.

2 Use MULTI-CONTROL to select the desired track title.

Turn to change the track title. Press to play.

- You can also change the track title by pushing **MULTI-CONTROL** up or down.
- You can also play the track by pushing **MULTI-CONTROL** right.
- To return to the ordinary display, press **BAND/ESC** or **LIST**.
- If you do not operate the list within about 30 seconds, the display automatically returns to the ordinary display.

Selecting files from the file name list

File name list lets you see the list of file names (or folder names) and select one of them to playback.

1 Press LIST to switch to the file name list mode.

Names of files and folders appear in the display.

2 Use MULTI-CONTROL to select the desired file name (or folder name).

Turn to change the name of file or folder.

- when a file is selected, press to play.
- when a folder is selected, press to see a list of files (or folders) in the seleted folder.
- when a folder is selected, press and hold to play a song in the selected folder.

- You can also play the file by pushing **MULTI-CONTROL** right.
- You can also play a song in the selected folder by pushing and holding **MULTI-CONTROL** right.
- To return to the previous list (the folder one level higher), press **BACK**. You can also perform this operation by pushing **MULTI-CONTROL** left.
- To return to the top tier of list, press and hold **BACK**.
- To return to the ordinary display, press **BAND/ESC** or **LIST**.
- If you do not operate the list within about 30 seconds, the display automatically returns to the ordinary display.

Introduction of advanced operations

1 Press MULTI-CONTROL to display the main menu.

2 Use MULTI-CONTROL to select FUNCTION.

Turn to change the menu option. Press to select.

3 Turn MULTI-CONTROL to select the function.

REPEAT (repeat play)—**RANDOM** (random play)—**SCAN** (scan play)—**PAUSE** (pause)—**SOUND RETRIEVER** (sound retriever)—**TITLE INPUT** (disc title input)

Notes

- You can also select the function by pressing **FUNCTION** on the remote control.
- To return to the previous display, press **BACK**.
- To return to the main menu, press and hold **BACK**.
- To return to the ordinary display, press **BAND/ESC**.
- If you do not operate functions except for **TITLE INPUT** within about 30 seconds, the display automatically returns to the ordinary display.
- When playing a compressed audio disc or CD TEXT disc, you cannot switch to disc title input display.

Selecting a repeat play range

● **Press RPT repeatedly to select the desired setting.**

- **DISC** – Repeat all tracks
- **TRACK** – Repeat the current track
- **FOLDER** – Repeat the current folder

■ If you select another folder during repeat play, the repeat play range changes to disc repeat.

■ Performing track search or fast forward/reverse during **TRACK** (track repeat) changes the repeat play range to disc/folder.

■ When **FOLDER** (folder repeat) is selected, it is not possible to play back a subfolder of that folder.

Note

You can also perform this operation in the menu that appears by using **MULTI-CONTROL**.

Playing tracks in random order

Tracks in a selected repeat range are played in random order.

● **Press RDM to turn random play on.**

Tracks play in a random order.

■ To turn random play off, press **RDM** again.

Note

You can also turn this function on or off in the menu that appears by using **MULTI-CONTROL**.

Scanning folders and tracks

Scan play searches the song within the selected repeat range.

1 Use MULTI-CONTROL to select SCAN in the function menu.

2 Press MULTI-CONTROL to turn scan play on.

The first 10 seconds of each track is played.

3 When you find the desired track press MULTI-CONTROL to turn scan play off.

■ If the display has automatically returned to the playback display, select **SCAN** again by using **MULTI-CONTROL**.

■ After scanning of a disc (folder) is finished, normal playback of the tracks begins.

Pausing playback

● **Press II (pause) on the remote control to turn pause on.**

Playback of the current track pauses.

■ To turn pause off, press **II** (pause) again.

Note

You can also turn this function on or off in the menu that appears by using **MULTI-CONTROL**.

Using Sound Retriever

Sound Retriever function automatically enhances compressed audio and restores rich sound.

● **Press S.Rtrv repeatedly to select the desired setting.**

OFF (off)—**1**—**2**

■ **2** is more effective than **1**.

Note

You can also perform this operation in the menu that appears by using **MULTI-CONTROL**.

Using disc title functions

You can input CD titles and display the title. The next time you insert a CD for which you have entered a title, the title of that CD is displayed.

Entering disc titles

Use the disc title input feature to store up to 24 CD titles in the unit. Each title can be up to 10 characters long.

1 Play the CD that you want to enter a title for.

2 Use MULTI-CONTROL to select TITLE INPUT in the function menu.

3 Press MULTI-CONTROL to display the title input mode.

4 Turn MULTI-CONTROL to select a letter of the alphabet.

■ You can also perform the same operations by pushing **MULTI-CONTROL** up or down.

5 Press MULTI-CONTROL to move the cursor to the next character position.

6 After entering the title, press and hold MULTI-CONTROL to store it in memory.

Notes

- Titles remain in memory, even after the disc is removed from the unit, and are recalled when the disc is reinserted.
- After data for 24 discs are stored in the memory, data for a new disc overwrites the oldest one.

Playing songs on USB portable audio player/USB memory

For details about the supported device, refer to Portable audio player compatibility on page 4.

Basic Operations

- **Select a folder**

Push **MULTI-CONTROL** up or down.

- **Fast forward or reverse**

Push and hold **MULTI-CONTROL** left or right for about one second and release.

- **Select a track**

Push **MULTI-CONTROL** left or right.

- **Return to root folder**

Press and hold **BAND/ESC**.

Notes

- Optimum performance of this unit may not be obtained depending on the connected USB portable audio player/USB memory.
- If folder 01 (ROOT) contains no files, playback commences with folder 02.
- When the USB portable audio player having battery charging function is connected to this unit and the ignition switch is set to ACC or ON, the battery is charged.
- You can disconnect the USB portable audio player/USB memory anytime you want to finish listening to it.
- If USB portable audio player/USB memory is connected to this unit, the source is changed to USB automatically. If you do not use an USB device, disconnect it from this unit. Depending on the connected USB device, turning on the ignition switch while USB device is connected to this unit may change the source automatically.

Displaying text information of an audio file

● **Press DISP to select the desired text information.**

For WMA/MP3

Play time—folder name—file name—track title—artist name—album title—comment—bit rate

For WAV

Play time—folder name—file name—sampling frequency

- If the characters recorded on the audio file are not compatible with the head unit, those characters are not displayed.
- If specific information is not recorded on an audio file, title or name is not displayed.
- The text information of some audio files may not be correctly displayed.

Notes

- You can scroll the text information to the left by pressing and holding **DISP**.
- When Ever Scroll is set to ON at the initial setting, text information scrolls continuously in the display. Refer to *Switching the ever scroll* on page 24.

Selecting files from the file name list

The operation is the same as that of the built-in CD player. (Refer to *Selecting files from the file name list* on page 13.)

Introduction of advanced operations

1 Press MULTI-CONTROL to display the main menu.

2 Use MULTI-CONTROL to select FUNCTION.

Turn to change the menu option. Press to select.

3 Turn MULTI-CONTROL to select the function.

REPEAT (repeat play)—**RANDOM** (random play)—**SCAN** (scan play)—**PAUSE** (pause)—**SOUND RETRIEVER** (sound retriever)

Function and operation

REPEAT, **RANDOM**, **SCAN**, **PAUSE** and **SOUND RETRIEVER** operations are basically the same as that of the built-in CD player.

Function name	Operation
REPEAT	Refer to *Selecting a repeat play range* on page 14. However, the repeat play ranges you can select are different from that of the built-in CD player. The repeat play ranges of the USB portable audio player/USB memory are: • **TRACK** – Repeat just the current file • **FOLDER** – Repeat the current folder • **ALL** – Repeat all files
RANDOM	Refer to *Playing tracks in random order* on page 14.
SCAN	Refer to *Scanning folders and tracks* on page 14.
PAUSE	Refer to *Pausing playback* on page 14.
SOUND RETRIEVER	Refer to *Using Sound Retriever* on page 14.

Notes

- You can also select the function by pressing **FUNCTION** on the remote control.
- To return to the previous display, press **BACK**.
- To return to the main menu, press and hold **BACK**.
- To return to the ordinary display, press **BAND/ESC**.
- If you select another folder during repeat play, the repeat play range changes to **ALL**.
- If you perform track search or fast forward/reverse during **TRACK**, the repeat play range changes to **FOLDER**.

- When **FOLDER** is selected, it is not possible to play back a subfolder of that folder.
- After file or folder scanning is finished, normal playback of the files begins again.

Introduction of audio adjustments

1 Press MULTI-CONTROL to display the main menu.

2 Use MULTI-CONTROL to select AUDIO.
Turn to change the menu option. Press to select.

3 Turn MULTI-CONTROL to select the audio function.
FADER/BALANCE (balance adjustment)—**PRESET EQUALIZER** (equalizer recall)—**EQ SETTING 1** (equalizer adjustment)—**EQ SETTING 2** (equalizer fine adjustment)—**LOUDNESS** (loudness)—**SW SETTING 1** (subwoofer on/off setting)—**SW SETTING 2** (subwoofer setting)—**HIGH PASS FILTER** (high pass filter)—**BASS BOOST** (bass boost)—**SRC LV ADJUST** (source level adjustment)

4 Press MULTI-CONTROL to display the setting mode of each function.

5 Adjust the each function.

Notes

- You can also select the audio function by pressing **AUDIO** on the remote control.
- To return to the previous display, press **BACK**.
- To return to the main menu, press and hold **BACK**.
- To return to the ordinary display, press **BAND/ESC**.
- When the subwoofer controller setting is **PREOUT:REAR**, you cannot switch to **SW SETTING 1** (subwoofer on/off setting). (Refer to page 23.)
- You can select the **SW SETTING 2** only when subwoofer output is turned on in **SW SETTING 1**.
- When selecting FM as the source, you cannot switch to **SRC LV ADJUST**.
- If you do not operate functions within about 30 seconds, the display automatically returns to the ordinary display. ■

Using balance adjustment

You can change the fader/balance setting so that it can provide the ideal listening environment in all occupied seats.

1 Use MULTI-CONTROL to select FADER/BALANCE.

2 Press MULTI-CONTROL to display the setting mode.

3 Press MULTI-CONTROL to select the segment you wish to set.
Press **MULTI-CONTROL** repeatedly to switch between fader and balance.

4 Turn MULTI-CONTROL to adjust speaker balance.
Front/rear speaker balance can be adjusted between **FAD F15** and **FAD R15**.
Left/right speaker balance can be adjusted between **BAL L15** and **BAL R15**.

- You can also perform the same operations by pushing **MULTI-CONTROL** up or down.
- **FAD 0** is the proper setting when only two speakers are used.
- When the rear output setting is **REAR SP:SUB W**, adjusting the front/rear speaker balance is not effective. Refer to *Setting the rear output and subwoofer controller* on page 23. ■

Using the equalizer

The equalizer lets you adjust the equalization to match the car's interior acoustic characteristics as desired.

Recalling equalizer curves

There are six stored equalizer curves which you can easily recall at any time. Here is a list of the equalizer curves.

Display	Equalizer curve
POWERFUL	Powerful
NATURAL	Natural
VOCAL	Vocal

CUSTOM	Custom
FLAT	Flat
SUPER BASS	Super bass

- **CUSTOM** is an adjusted equalizer curve that you create. If you make adjustments to an equalizer curve, the equalizer curve setting is memorized in **CUSTOM**.
- When **FLAT** is selected, no supplement or correction is made to the sound. This is useful to check the effect of the equalizer curves by switching alternatively between **FLAT** and a set equalizer curve.

1 Use MULTI-CONTROL to select PRESET EQUALIZER.

2 Press MULTI-CONTROL to display the setting mode.

3 Turn MULTI-CONTROL to select the equalizer.

▪ You can also perform the same operations by pushing **MULTI-CONTROL** up or down.

Adjusting equalizer curves

The factory supplied equalizer curves can be adjusted to a fine degree (nuance control).

1 Use MULTI-CONTROL to select EQ SETTING 1.

2 Press MULTI-CONTROL to display the setting mode.

3 Press MULTI-CONTROL to select the segment you wish to set.

Press **MULTI-CONTROL** repeatedly to switch the segment in the following order:
L (low)—**M** (mid)—**H** (high)

4 Turn MULTI-CONTROL to adjust the level of the equalization band.

+6 to **–6** is displayed as the level is increased or decreased.

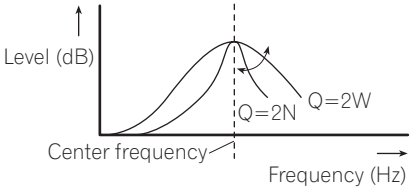
▪ You can also perform the same operations by pushing **MULTI-CONTROL** up or down.

▪ You can then select another band and adjust the level.

Fine-adjusting equalizer curve

You can adjust the center frequency and the Q factor (curve characteristics) of each currently selected curve band (**LOW**/**MID**/**HI**).

- If you make adjustments, **CUSTOM** curve is updated.



1 Use MULTI-CONTROL to select EQ SETTING 2.

2 Press MULTI-CONTROL to display the setting mode.

3 Press MULTI-CONTROL to select the segment you wish to set.

Press **MULTI-CONTROL** repeatedly to switch the segment in the following order:
Band—**Frequency**—**Q factor**

4 Turn MULTI-CONTROL to adjust the selected segement.

Band
LOW (low)—**MID** (mid)—**HI** (high)
Frequency
Low: **40HZ**—**80HZ**—**100HZ**—**160HZ**
Mid: **200HZ**—**500HZ**—**1KHZ**—**2KHZ**
High: **3KHZ**—**8KHZ**—**10KHZ**—**12KHZ**
Q factor
2N—**1N**—**1W**—**2W**

▪ You can also perform the same operations by pushing **MULTI-CONTROL** up or down.

Adjusting loudness

Loudness compensates for deficiencies in the low- and high-sound ranges at low volume.

1 Use MULTI-CONTROL to select LOUDNESS.

2 Press MULTI-CONTROL to display the setting mode.

3 Use MULTI-CONTROL to select the desired setting.
Turn to change the setting.
LOW (low)—**MID** (mid)—**HIGH** (high)—**OFF** (off)
- You can also perform the same operations by pushing **MULTI-CONTROL** up or down.

Using subwoofer output

This unit is equipped with a subwoofer output which can be turned on or off.
Also, phase can be selected between normal and reverse.

1 Press SW to display the subwoofer setting mode.
Press **SW** repeatedly to switch between the subwoofer setting modes in the following order.
SW SETTING 1 (subwoofer on/off setting) setting mode—**SW SETTING 2** (subwoofer setting) setting mode

2 Select SW SETTING 1 setting mode.

3 Turn MULTI-CONTROL to select the desired setting.
NORMAL (normal phase)—**REV** (reverse phase)—**OFF** (subwoofer off)
- You can also perform the same operations by pushing **MULTI-CONTROL** up or down.

Note

You can also switch to this setting mode in the menu that appears by using **MULTI-CONTROL**.

Adjusting subwoofer settings

When the subwoofer output is on, you can adjust the cut-off frequency and the output level of the subwoofer.
- When the subwoofer output is on, you can select **SW SETTING 2**.

1 Press SW to display the subwoofer setting mode.
Press **SW** repeatedly to switch between the subwoofer setting modes in the following order.
SW SETTING 1 (subwoofer on/off setting) setting mode—**SW SETTING 2** (subwoofer setting) setting mode

2 Select SW SETTING 2 setting mode.

3 Press MULTI-CONTROL to select the segment you wish to set.
Press **MULTI-CONTROL** repeatedly to switch the segment in the following order:
Cut off frequency—**Level**

4 Turn MULTI-CONTROL to adjust the selected segement.
Cut off frequency
50HZ—**63HZ**—**80HZ**—**100HZ**—**125HZ**
Level
+6 to **–24** is displayed as the level is increased or decreased.
- You can also perform the same operations by pushing **MULTI-CONTROL** up or down.

Note

You can also switch to this setting mode in the menu that appears by using **MULTI-CONTROL**.

Using the high pass filter

When you do not want low sounds from the subwoofer output frequency range to play from the front or rear speakers, turn on the HPF (high pass filter). Only frequencies higher than those in the selected range are output from the front or rear speakers.

1 Use MULTI-CONTROL to select HIGH PASS FILTER.

2 Press MULTI-CONTROL to display the setting mode.

3 Use MULTI-CONTROL to select the desired setting.

Turn to change the setting.

OFF—50HZ—63HZ—80HZ—100HZ—125HZ

- You can also perform the same operations by pushing **MULTI-CONTROL** up or down.

Boosting the bass

Bass boost function boosts the bass level of sound.

1 Press and hold BASS to display BASS BOOST setting mode.

2 Turn MULTI-CONTROL to adjust the level.

0 to **+6** is displayed as the level is increased or decreased.

- You can also perform the same operations by pushing **MULTI-CONTROL** up or down.

Note

You can also switch to this setting mode in the menu that appears by using **MULTI-CONTROL**.

Adjusting source levels

Source level adjustment (**SRC LV ADJUST**) lets you adjust the volume level of each source to prevent radical changes in volume when switching between sources.

- Settings are based on the FM volume level, which remains unchanged.

1 Compare the FM volume level with the level of the source you wish to adjust.

2 Use MULTI-CONTROL to select SRC LV ADJUST.

3 Press MULTI-CONTROL to display the setting mode.

4 Turn MULTI-CONTROL to adjust the source volume.

+4 to **–4** is displayed as the source volume is increased or decreased.

- You can also perform the same operations by pushing **MULTI-CONTROL** up or down.

Note

The AM volume level can also be adjusted with source level adjustments.

Adjusting initial settings

1 Press OFF and hold until the unit turns off.

2 Press MULTI-CONTROL and hold until CLOCK SET appears in the display.

3 Turn MULTI-CONTROL to select one of the initial settings.
CLOCK SET (clock)—**FM STEP** (FM tuning step)—**AM STEP** (AM tuning step)—**WARNING TONE** (warning tone)—**AUX** (auxiliary input)—**SW CONTROL** (rear output and subwoofer controller)—**EVER SCROLL** (ever scroll)

- You can also perform the same operations by pushing **MULTI-CONTROL** up or down.
- You can also select the function by pressing **FUNCTION** on the remote control.
- To cancel initial settings, press **BAND/ESC**.

Setting the clock

Use these instructions to set the clock.

1 Use MULTI-CONTROL to select CLOCK SET.

2 Press MULTI-CONTROL to display the setting mode.

- Press **BACK** to return to the previous display.

3 Press MULTI-CONTROL to select the segment of the clock display you wish to set.
Each time you press **MULTI-CONTROL**, one segment of the clock display is selected.
Hour—Minute
As you select segments of the clock display, the selected segment blinks.

4 Turn MULTI-CONTROL to put a clock right.

- You can also perform the same operations by pushing **MULTI-CONTROL** up or down.

Setting the FM tuning step

The FM tuning step employed by seek tuning can be switched between 100 kHz, the preset step, and 50 kHz.

- If seek tuning is performed in 50 kHz steps, stations may be tuned in imprecisely. Tune in the stations with manual tuning or use seek tuning again.

1 Use MULTI-CONTROL to select FM STEP.

2 Press MULTI-CONTROL to display the setting mode.

3 Turn MULTI-CONTROL to select the FM tuning step.
Turning **MULTI-CONTROL** will switch the FM tuning step between 50 kHz and 100 kHz. The selected FM tuning step will appear in the display.

- You can also perform the same operations by pushing **MULTI-CONTROL** up or down.

Note

The tuning step remains at 50 kHz during manual tuning.

Setting the AM tuning step

The AM tuning step can be switched between 9 kHz, the preset step, and 10 kHz. When using the tuner in North, Central or South America, reset the tuning step from 9 kHz (531 kHz to 1 602 kHz allowable) to 10 kHz (530 kHz to 1 640 kHz allowable).

1 Use MULTI-CONTROL to select AM STEP.

2 Press MULTI-CONTROL to display the setting mode.

3 Turn MULTI-CONTROL to select the AM tuning step.

Turning **MULTI-CONTROL** will switch the AM tuning step between 9 kHz and 10 kHz. The selected AM tuning step will appear in the display.

- You can also perform the same operations by pushing **MULTI-CONTROL** up or down.

Switching the warning tone

If the front panel is not detached from the head unit within four seconds of turning off the ignition, a warning tone sounds. You can turn off the warning tone.

1 Use MULTI-CONTROL to select WARNING TONE.

2 Press MULTI-CONTROL to turn warning tone on.

- To turn warning tone off, press **MULTI-CONTROL** again.

Switching the auxiliary setting

It is possible to use auxiliary equipment with this unit. Activate the auxiliary setting when using auxiliary equipment connected to this unit.

1 Use MULTI-CONTROL to select AUX.

2 Press MULTI-CONTROL to turn AUX on.

- To turn AUX off, press **MULTI-CONTROL** again.

Setting the rear output and subwoofer controller

This unit's rear output (rear speaker leads output and RCA rear output) can be used for full-range speaker (**REAR SP:FULL**/**PREOUT:REAR**) or subwoofer (**REAR SP:SUB W**/**PREOUT:SUB W**) connection. If you switch the rear output setting to **REAR SP:SUB W**, you can connect a rear speaker lead directly to a subwoofer without using an auxiliary amp.

Initially, the unit is set for rear full-range speaker connection (**REAR SP:FULL**). When rear output is connected to full range speakers (when **REAR SP:FULL** is selected), you can connect the RCA subwoofer output to a subwoofer. In this case, you can select whether to use the subwoofer controller's (low pass filter, phase) built-in **PREOUT:SUB W** or the auxiliary **PREOUT:REAR**.

1 Use MULTI-CONTROL to select SW CONTROL.

2 Press MULTI-CONTROL to display the setting mode.

- Press **BACK** to return to the previous display.

3 Press MULTI-CONTROL to select the segment you wish to set.

Press **MULTI-CONTROL** repeatedly to switch the segment in the following order:
REAR SP (rear speaker setting)—**PREOUT** (RCA output setting)

4 Use MULTI-CONTROL to select the desired setting.

Turn to change the setting.

When REAR SP (rear speaker setting) is selected.
REAR SP:SUB W (subwoofer)—
REAR SP:FULL (full-range speaker)
When PREOUT (RCA output setting) is selected.
PREOUT:SUB W (subwoofer)—
PREOUT:REAR (full-range speaker)

- When no subwoofer is connected to the rear output, select **REAR SP:FULL**.
- When a subwoofer is connected to the rear output, set for subwoofer **REAR SP:SUB W**.

Notes

- Even if you change this setting, there is no output unless you turn the subwoofer output on (refer to *Using subwoofer output* on page 20).
- If you change this setting, subwoofer output in the audio menu return to the factory settings.
- Both rear speaker lead outputs and RCA rear output are switched simultaneously in this setting.

Switching the ever scroll

When Ever Scroll is set to ON, recorded text information scrolls continuously in the display. Set to OFF if you prefer the information to scroll just once.

1 Use MULTI-CONTROL to select EVER SCROLL.

2 Press MULTI-CONTROL to turn the ever scroll on.

- To turn the Ever Scroll off, press **MULTI-CONTROL** again.

Using the AUX source

You can connect an auxiliary equipment to this unit using a stereo mini plug cable.

● **Insert the stereo mini plug into the input jack on this unit.**
For more details, refer to the installation manual.

Selecting AUX as the source

● **Press SRC to select AUX as the source.**

▪ If the auxiliary setting is not turned on, **AUX** cannot be selected. For more details, see *Switching the auxiliary setting* on page 23.

Setting the AUX title

The title displayed for the **AUX** source can be changed.

1 After you have selected AUX as the source, use MULTI-CONTROL and select FUNCTION to display TITLE INPUT.

2 Enter a title in the same way as the built-in CD player.
For details concerning operation, refer to *Entering disc titles* on page 15.

Turning the clock display on or off

You can turn the clock display on or off.

- Even when the sources are off, the clock display appears on the display.

● **Press CLOCK to turn the clock display on or off.**
Each press of **CLOCK** turns the clock display on or off.

▪ The clock display disappears temporarily when you perform other operations, but the clock display appears again after 25 seconds.

Important

Important

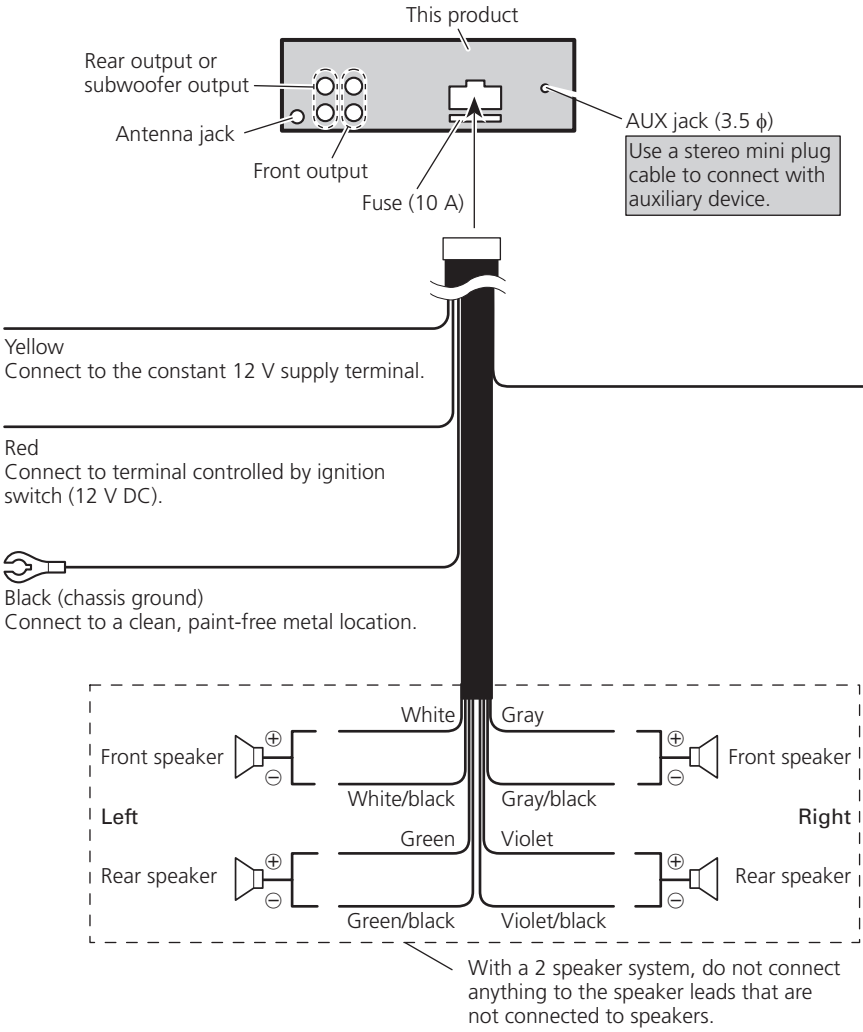
- When this unit is installed in a vehicle without ACC (accessory) position on the ignition switch, red cable must be wired to the terminal that can detect the operation of the ignition key. Otherwise, battery drain may result.

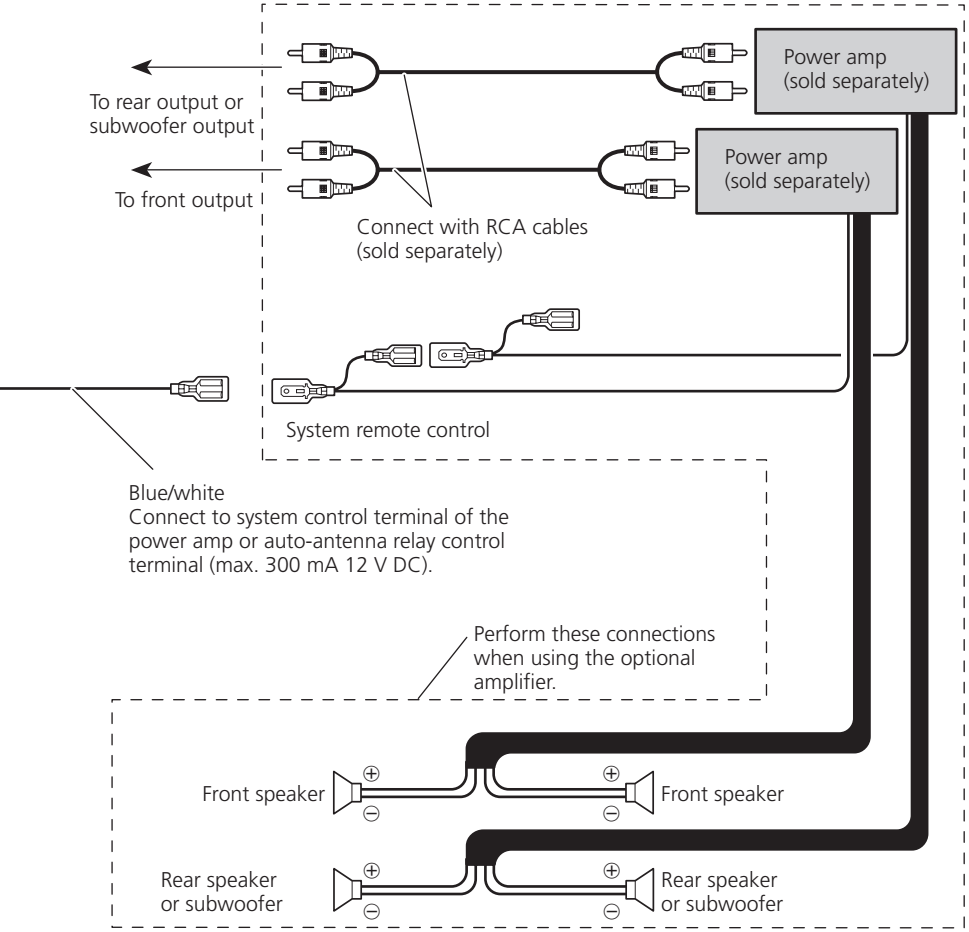
ACC position

No ACC position

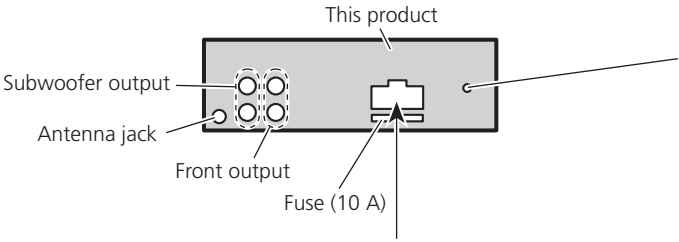
- Use of this unit in conditions other than the following could result in fire or malfunction.
  - — Vehicles with a 12-volt battery and negative grounding.
  - — Speakers with 50 W (output value) and 4 ohm to 8 ohm (impedance value).
- To prevent a short-circuit, overheating or malfunction, be sure to follow the directions below.
  - — Disconnect the negative terminal of the battery before installation.
  - — Secure the wiring with cable clamps or adhesive tape. To protect the wiring, wrap adhesive tape around them where they lie against metal parts.
  - — Place all cables away from moving parts, such as gear shift and seat rails.
  - — Place all cables away from hot places, such as near the heater outlet.
  - — Do not pass the yellow cable through a hole into the engine compartment to connect to a battery.
  - — Cover any disconnected cable connectors with insulating tape.
  - — Do not shorten any cables.
  - — Never cut the insulation of the power cable of this unit in order to share the power with other devices. Current capacity of the cable is limited.
  - — Use a fuse of the rating prescribed.
  - — Never wire the speaker negative cable directly to ground.
  - — Never band together multiple speaker's negative cables.
- Control signal is output through blue/white cable when this unit is powered on. Connect it to an external power amp's system remote control or the vehicle's auto-antenna relay control terminal (max. 300 mA 12 V DC). If the vehicle is equipped with a glass antenna, connect it to the antenna booster power supply terminal.
- Never connect blue/white cable to external power amp's power terminal. Also, never connect it to the power terminal of the auto antenna. Otherwise, battery drain or malfunction may result.
- Black cable is ground. This cable and other product's ground cable (especially, high-current products such as power amp) must be wired separately. Otherwise, fire or malfunction may result if they are accidentally detached.■

When not connecting a rear speaker lead to a subwoofer




To rear output or subwoofer output
To front output
Power amp (sold separately)
Power amp (sold separately)
Connect with RCA cables (sold separately)
System remote control
Blue/white
Connect to system control terminal of the power amp or auto-antenna relay control terminal (max. 300 mA 12 V DC).
Perform these connections when using the optional amplifier.
Front speaker
Front speaker
Rear speaker or subwoofer
Rear speaker or subwoofer

When using a subwoofer without using the optional amplifier



Yellow
Connect to the constant 12 V supply terminal.

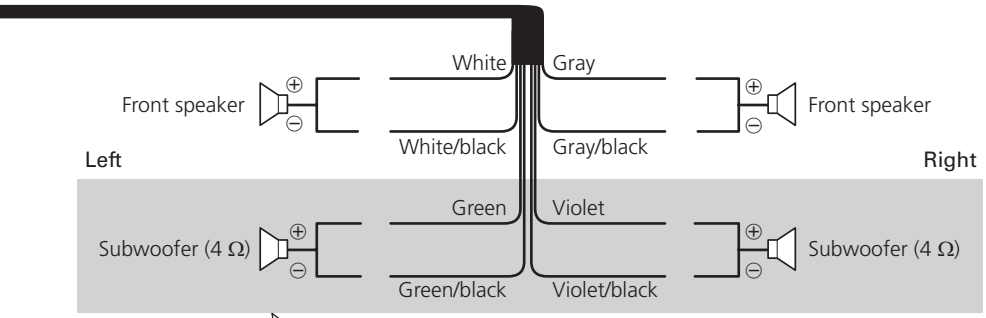
Red
Connect to terminal controlled by ignition switch (12 V DC).

Black (chassis ground)
Connect to a clean, paint-free metal location.

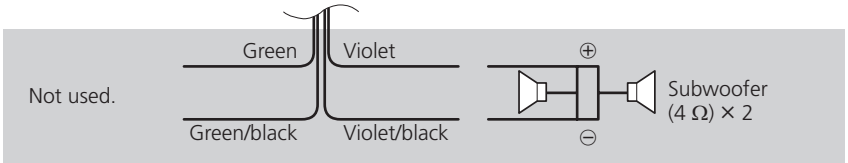
Note
Change the initial setting of this unit.
The subwoofer output of this unit is monaural.

AUX jack (3.5 ϕ)
Use a stereo mini plug cable to connect with auxiliary device.

Blue/white
Connect to system control terminal of the power amp or auto-antenna relay control terminal (max. 300 mA 12 V DC).

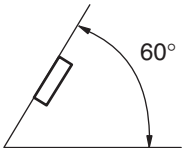


When using a subwoofer of 70 W (2 Ω), be sure to connect with Violet and Violet/black leads of this unit.
Do not connect anything with Green and Green/black leads.



Important

- Check all connections and systems before final installation.
- Do not use unauthorized parts. Use of unauthorized parts may cause malfunctions.
- Consult your dealer if installation requires drilling of holes or other modifications to the vehicle.
- Do not install this unit where:
  — it may interfere with operation of the vehicle.
  — it may cause injury to a passenger as a result of a sudden stop.
- The semiconductor laser will be damaged if it overheats. Install this unit away from hot places such as near the heater outlet.
- Optimum performance is obtained when the unit is installed at an angle of less than 60°.



- When installing, to ensure proper heat dispersal when using this unit, make sure you leave ample space behind the rear panel and wrap any loose cables so they are not blocking the vents.

DIN front/rear mount

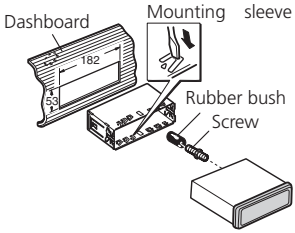
This unit can be properly installed either from “Front” (conventional DIN front-mount) or “Rear” (DIN rear-mount installation, utilizing threaded screw holes at the sides of unit chassis). For details, refer to the following installation methods.

DIN Front-mount

Installation with the rubber bush

- **Install the unit into the dashboard.**

After inserting the holder into the dashboard, then select the appropriate tabs according to the thickness of the dashboard material and bend them. (Install as firmly as possible using the top and bottom tabs. To secure, bend the tabs 90 degrees.)

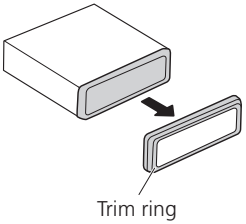


Removing the unit

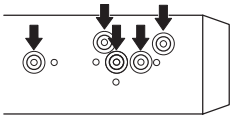
1 Remove the frame.

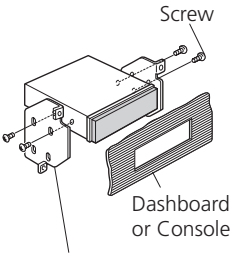
To remove the frame, extend top and bottom of the frame outwards in order to unlock it. (When reattaching the frame, point the side with a groove downwards and attach it.)

- It becomes easy to remove the trim ring if the front panel is released.
- If the trim ring is attached upside down, the trim ring will not fit properly.



2 Insert the supplied extraction keys into both sides of the unit until they click into place.





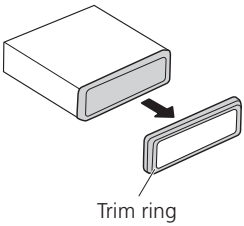
DIN Rear-mount

Installation using the screw holes on the side of the unit

1 Remove the frame.

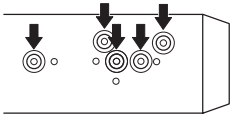
To remove the frame, extend top and bottom of the frame outwards in order to unlock it. (When reattaching the frame, point the side with a groove downwards and attach it.)

- It becomes easy to remove the trim ring if the front panel is released.
- If the trim ring is attached upside down, the trim ring will not fit properly.



2 Tighten two screws on each side.

Use either truss screws (5 mm × 8 mm) or flush surface screws (5 mm × 9 mm), depending on the shape of screw holes in the bracket.



Error messages

When you contact your dealer or your nearest Pioneer Service Center, be sure to have the error message recorded.

Built-in CD Player

Message	Cause	Action
ERROR-11, 12, 17, 30	Dirty disc	Clean disc.
ERROR-11, 12, 17, 30	Scratched disc	Replace disc.
ERROR-10, 11, 12, 15, 17, 30, A0	Electrical or mechanical	Turn the ignition switch OFF and back ON, or switch to a different source, then back to the CD player.
ERROR-15	The inserted disc does not contain any data	Replace disc.
ERROR-22, 23	The CD format cannot be played back	Replace disc.
NO AUDIO	The inserted disc does not contain any files that can be played back	Replace disc.
SKIPPED	The inserted disc contains WMA files that are protected by DRM	Replace disc.
PROTECT	All the files on the inserted disc are secured by DRM	Replace disc.

USB audio player/USB memory

Message	Cause	Action
NO AUDIO	No songs	Transfer the audio files to the USB portable audio player/USB memory and connect.
	USB memory with security enabled is connected	Follow the USB memory instructions to disable the security.
SKIPPED	The connected USB portable audio player/ USB memory contains WMA files that are protected by Windows Media DRM 9/10	Play an audio file not protected by Windows Media DRM 9/10.
PROTECT	All the files on the connected USB portable audio player/ USB memory are protected by Windows Media DRM 9/10	Transfer audio files not protected by Windows Media DRM 9/10 to the USB portable audio player/USB memory and connect.
N/A USB	The USB device connected to is not supported by this unit.	Connect a USB portable audio player or USB memory that is USB Mass Storage Class compliant.
CHECK USB	The USB connector or USB cable is short-circuited.	Confirm that the USB connector or USB cable is not caught in something or damaged.
	The connected USB portable audio player/ USB memory consumes more than 500 mA (maximum allowable current).	Disconnect the USB portable audio player/USB memory and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect the compliant USB portable audio player/ USB memory.

Handling guideline of discs and player

- Use only discs featuring either of following two logos.

- Use only conventional, fully circular discs. Do not use shaped discs.

- Use 12-cm or 8-cm CD. Do not use an adapter when playing 8-cm CDs.
- Do not insert anything other than a CD into the CD loading slot.
- Do not use cracked, chipped, warped, or otherwise damaged discs as they may damage the player.
- Unfinalized CD-R/CD-RW disc playback is not possible.
- Do not touch the recorded surface of the discs.
- Store discs in their cases when not in use.
- Avoid leaving discs in excessively hot environments including under direct sunlight.
- Do not attach labels, write on or apply chemicals to the surface of the discs.
- To clean a CD, wipe the disc with a soft cloth outward from the center.
- Condensation may temporarily impair the player's performance. Leave it to adjust to the warmer temperature for about one hour. Also, wipe any dump discs with a soft cloth.
- Playback of discs may not be possible because of disc characteristics, disc format, recorded application, playback environment, storage conditions, and so on.
- Text information may not be correctly displayed depending on the recorded environment.
- Road shocks may interrupt disc playback.
- Read the precautions for discs before using them.

Dual Discs

- Dual Discs are two-sided discs that have a recordable CD for audio on one side and a recordable DVD for video on the other.
- Since the CD side of Dual Discs is not physically compatible with the general CD standard, it may not be possible to play the CD side with this unit.
- Frequent loading and ejecting of a Dual Disc may result in scratches on the disc. Serious scratches can lead to playback problems on this unit. In some cases, a Dual Disc may become stuck in the disc loading slot and will not eject. To prevent this, we recommend you refrain from using Dual Disc with this unit.
- Please refer to the information from the disc manufacturer for more detailed information about Dual Discs.

Compressed audio compatibility

WMA

- Compatible format: WMA encoded by Windows Media Player
- Bit rate: 48 kbps to 320 kbps (CBR), 48 kbps to 384 kbps (VBR)
- Sampling frequency: 32 kHz, 44.1 kHz, 48 kHz
- Windows Media Audio 9 Professional, Lossless, Voice: No

MP3

- Bit rate: 8 kbps to 320 kbps (CBR), VBR
- Sampling frequency: 8 kHz to 48 kHz (32, 44.1, 48 kHz for emphasis)
- Compatible ID3 tag version: 1.0, 1.1, 2.2, 2.3, 2.4 (ID3 tag Version 2.x is given priority than Version 1.x.)
- M3u playlist: No
- MP3i (MP3 interactive), mp3 PRO: No

WAV

- Compatible format: Linear PCM (LPCM), MS ADPCM
- Quantization bits: 8 and 16 (LPCM), 4 (MS ADPCM)

- Sampling frequency: 16 kHz to 48 kHz (LPCM), 22.05 kHz to 44.1 kHz (MS ADPCM) ▣

USB audio player/USB memory

USB audio player/USB memory compatibility

- USB version: 2.0, 1.1 and 1.0
- USB data transfer rate: full speed
- USB Class: MSC (Mass Storage Class) device
- Protocol: bulk
- Minimum amount of memory: 250 MB
- Maximum amount of memory: 250 GB
- File system: FAT32 and FAT16
- Supply current: 500 mA

Notes

- Partitioned USB memory is not compatible with this unit.
- Depending on the kind of USB portable audio player/USB memory you use, this unit may not recognize the USB audio player/USB memory or audio files may not be played back properly.
- This unit can play back files in the USB portable audio player/USB memory that is USB Mass Storage Class. However, copyright protected files that are stored in above-mentioned USB devices cannot be played back.
- You cannot connect a USB portable audio player/USB memory to this unit via a USB hub.

Handling guideline and supplemental information

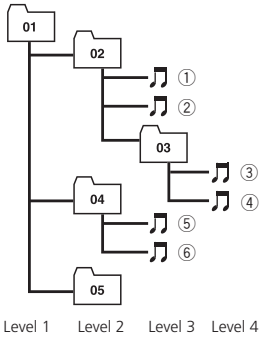
- Do not leave the USB portable audio player/USB memory in direct sunlight for extended amounts of time. Extended exposure to direct sunlight can result in USB portable audio player/USB memory malfunction due to the resulting high temperature.
- Do not leave the USB portable audio player/USB memory in high temperature.
- Firmly secure the USB portable audio player/USB memory when driving. Do not let the USB portable audio player/USB memory fall onto the floor, where it may become jammed under the brake or accelerator pedal.
- There may be a slight delay when starting playback of audio files encoded with image data.
- Depending on the USB devices connected to this unit, it may generate noise in the radio.
- Only 64 characters from the beginning can be displayed as a file name (including the extension) or a folder name when USB portable audio player/USB memory is selected as a source.
- The text information of some audio files may not be correctly displayed.
- File extensions must be used properly.
- Up to 15 000 files on a USB portable audio player/USB memory can be played back.
- Up to 500 folders on a USB portable audio player/USB memory can be played back.
- Up to eight tiers directory on a USB portable audio player/USB memory can be played back.
- There may be a slight delay when starting playback of audio files on a USB portable audio player/USB memory with numerous folder hierarchies.
- Do not connect anything other than the USB portable audio player/USB memory.
- Operations may vary depending on the kind of USB audio player and a USB memory.

The sequence of audio files on USB memory

For USB portable audio players, the sequence is different from that of USB memory and depends on the player.

Example of a hierarchy

: Folder
: Compressed audio file



- 01 to 05 represent assigned folder numbers. ① to ⑥ represent the playback sequence. The user cannot assign folder numbers and specify the playback sequence with this unit.
- Playback sequence of the audio file is the same as recorded sequence in the USB device.
- To specify the playback sequence, the following method is recommended.
  1 Create the file name including numbers that specify the playback sequence (e.g., 001xxx.mp3 and 099yyy.mp3).
  2 Put those files into a folder.
  3 Record the folder containing files into the USB device.

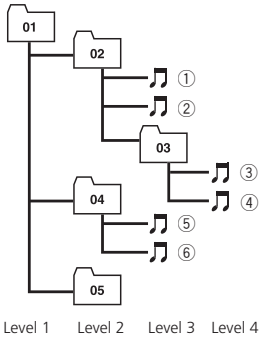
  However, depending on the system environment, you cannot specify the file playback sequence.

Compressed audio files on the disc

- Depending on the version of Windows Media Player used to encode WMA files, album names and other text information may not be correctly displayed.
- There may be a slight delay when starting playback of WMA files encoded with image data.
- ISO 9660 Level 1 and 2 compliant. Romeo and Joliet file systems are both compatible with this player.
- Multi-session playback is possible.
- Compressed audio files are not compatible with packet write data transfer.
- Only 64 characters from the beginning can be displayed as a file name (including the extension such as .wma, .mp3 or .wav) or a folder name.
- Folder selection sequence or other operation may be altered depending on the encoding or writing software.
- Regardless of the length of blank section between the songs of original recording, compressed audio discs play with a short pause between songs.
- File extensions such as .wma, .mp3 or .wav must be used properly.

Example of a hierarchy

: Folder
: Compressed audio file



- This unit assigns folder numbers. The user cannot assign folder numbers.
- Folder hierarchy is allowed up to eight tiers. However, a practical hierarchy of folder is less than two tiers.
- Up to 99 folders on a disc can be played back.

Specifications

General

Rated power source ..... 14.4 V DC (allowable voltage range: 12.0 V to 14.4 V DC)
Grounding system ..... Negative type
Max. current consumption ..... 10.0 A
Dimensions (W × H × D):
- DIN
  - Chassis ..... 178 mm × 50 mm × 162 mm
  - Nose ..... 188 mm × 58 mm × 22 mm
- D
  - Chassis ..... 178 mm × 50 mm × 162 mm
  - Nose ..... 170 mm × 48 mm × 22 mm

Weight ..... 1.3 kg

Audio

Maximum power output ..... 50 W × 4
50 W × 2/4 Ω + 70 W × 1/2 Ω (for subwoofer)
Continuous power output ... 22 W × 4 (50 Hz to 15 000 Hz, 5% THD, 4 Ω load, both channels driven)
Load impedance ..... 4 Ω to 8 Ω × 4
4 Ω to 8 Ω × 2 + 2 Ω × 1
Preout max output level ..... 2.2 V
Equalizer (3-Band Parametric Equalizer):
- Low
  - Frequency ..... 40/80/100/160 Hz
  - Q Factor ..... 0.35/0.59/0.95/1.15 (+6 dB when boosted)
  - Gain ..... ±12 dB
- Mid
  - Frequency ..... 200/500/1k/2k Hz
  - Q Factor ..... 0.35/0.59/0.95/1.15 (+6 dB when boosted)
  - Gain ..... ±12 dB
- High
  - Frequency ..... 3.15k/8k/10k/12.5k Hz
  - Q Factor ..... 0.35/0.59/0.95/1.15 (+6 dB when boosted)
  - Gain ..... ±12 dB

HPF:
- Frequency ..... 50/63/80/100/125 Hz
- Slope ..... –12 dB/oct

Subwoofer (mono):
- Frequency ..... 50/63/80/100/125 Hz
- Slope ..... –18 dB/oct
- Gain ..... +6 dB to –24 dB
- Phase ..... Normal/Reverse

Bass boost:
- Gain ..... +12 dB to 0 dB

CD player

System ..... Compact disc audio system
Usable discs ..... Compact disc
Signal-to-noise ratio ..... 94 dB (1 kHz) (IEC-A network)
Number of channels ..... 2 (stereo)
MP3 decoding format ..... MPEG-1 & 2 Audio Layer 3
WMA decoding format ..... Ver. 7, 7.1, 8, 9, 10, 11 (2ch audio)
(Windows Media Player)
WAV signal format ..... Linear PCM & MS ADPCM (Non-compressed)

USB

Specification ..... USB 2.0 full speed
Supply current ..... 500 mA
Maximum amount of memory ..... 250 GB
File system FAT16, FAT32
MP3 decoding format ..... MPEG-1 & 2 Audio Layer 3
WMA decoding format ..... Ver. 7, 7.1, 8, 9, 10, 11 (2ch audio)
(Windows Media Player)
WAV signal format ..... Linear PCM & MS ADPCM (Non-compressed)

FM tuner

Frequency range ..... 87.5 MHz to 108.0 MHz
Usable sensitivity ..... 8 dBf (0.7 μV/75 Ω, mono, S/N: 30 dB)
Signal-to-noise ratio ..... 75 dB (IEC-A network)

AM tuner

Frequency range ..... 531 kHz to 1 602 kHz (9 kHz)
530 kHz to 1 640 kHz (10 kHz)
Usable sensitivity ..... 18 μV (S/N: 20 dB)
Signal-to-noise ratio ..... 65 dB (IEC-A network)

Note

Specifications and the design are subject to modifications without notice due to improvements. ■

PIONEER CORPORATION
4-1, MEGURO 1-CHOME, MEGURO-KU
TOKYO 153-8654, JAPAN

PIONEER ELECTRONICS (USA) INC.
P.O. Box 1540, Long Beach, California 90801-1540, U.S.A.
TEL: (800) 421-1404

PIONEER EUROPE NV
Haven 1087, Keetberglaan 1, B-9120 Melsele, Belgium
TEL: (0) 3/570.05.11

PIONEER ELECTRONICS ASIACENTRE PTE. LTD.
253 Alexandra Road, #04-01, Singapore 159936
TEL: 65-6472-7555

PIONEER ELECTRONICS AUSTRALIA PTY. LTD.
178-184 Boundary Road, Braeside, Victoria 3195, Australia
TEL: (03) 9586-6300

PIONEER ELECTRONICS OF CANADA, INC.
300 Allstate Parkway, Markham, Ontario L3R 0P2, Canada
TEL: 1-877-283-5901
TEL: 905-479-4411

PIONEER ELECTRONICS DE MEXICO, S.A. de C.V.
Blvd.Manuel Avila Camacho 138 10 piso
Col.Lomas de Chapultepec, Mexico, D.F. 11000
TEL: 55-9178-4270

先鋒股份有限公司
總公司：台北市中山北路二段44號13樓
電話：(02) 2521-3588

先鋒電子（香港）有限公司
香港九龍尖沙咀海港城世界商業中心
9樓901-6室
電話：(0852) 2848-6488

Published by Pioneer Corporation.
Copyright © 2007 by Pioneer Corporation.
All rights reserved.

Printed in Thailand

<KMIZX> <07J00000>

<YRB5073-A/N> ID